

RECEIVED

SEP 06 2002

PATENT

Attorney Docket No. IMAGE.011A

Date: July 1, 2002

TECHNOLOGY CENTER R3700

RECEIVED

JUL 10 2002

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Ben Arnold

Appl. No. : 09/989,995

Filed : November 21, 2001

For : HYBRID CALIBRATION OF
TISSUE DENSITIES IN
COMPUTERIZED TOMOGRAPHY

Examiner : Unknown

Group Art Unit 1887
TECHNOLOGY CENTER R3700

CERTIFICATE OF MAILING

I hereby certify that this correspondence
and all marked attachments are being
deposited with the United States Postal
Service as first class mail in an
envelope addressed to: United States
Patent and Trademark Office, P.O. Box
2327, Arlington, Virginia 22202, USA

July 1, 2002

(Date)

Jerry T. Sewell, Reg. No. 31,567

RECEIVED

SEP 19 2002

TRANSMITTAL LETTER

UNITED STATES PATENT AND TRADEMARK OFFICE
P.O. Box 2327
Arlington, Virginia 22202
Technology Center 2600

Dear Sir:

Applicant hereby submits for filing in the above-identified application:

- (X) An Information Disclosure Statement.
- (X) A PTO Form 1449 with sixty-seven (67) references.
- (X) A return prepaid postcard.
- (X) The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment, to Account No. 11-1410.

Jerry T. Sewell
Registration No. 31,567
Attorney of RecordJTS-14527.DOC:ke
20020701/2

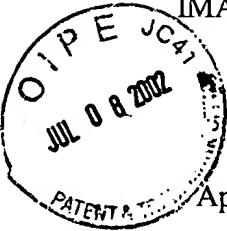
RECEIVED

SEP 17 2002

TECHNOLOGY CENTER R3700

RECEIVED
SEP - 6 2002
TC 3700 MAIL ROOM

IMAGE.011A



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Ben A. Arnold
App. No. : 09/989,995
Filed : November 21, 2001
For : HYBRID CALIBRATION OF
TISSUE DENSITIES IN
COMPUTERIZED TOMOGRAPHY
Examiner : Unknown

Group Art Unit 3754 R3700

RECEIVED

JUL 10 2002

TECHNOLOGY CENTER R3700

RECEIVED

SEP 06 2002

INFORMATION DISCLOSURE STATEMENT

United States Patent and Trademark Office
P.O. Box 2327
Arlington, VA 22202

Dear Sir:

Applicant encloses a form PTO-1449 listing 67 references that are also enclosed. This Information Disclosure Statement is being filed before the receipt of a first Office Action on the merits, and presumably no fee is required in accordance with 37 C.F.R. § 1.97(b)(3). If a first Office Action on the merits was mailed before the mailing date of this Statement, the Commissioner is authorized to charge the fee set forth in 37 C.F.R. § 1.17(p) to Deposit Account No. 11-1410.

Respectfully submitted,
KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: July 1, 2002

By: Jerry T. Sewell

Jerry T. Sewell
Registration No. 31,567
Attorney of Record
620 Newport Center Drive
Sixteenth Floor
Newport Beach, California 92660
949-760-0404

JTS-14526.DOC
20020701/1

RECEIVED
SEP 17 2002

TECHNOLOGY CENTER

RECEIVED
SEP 19 2002
Technology Center 2600

RECEIVED
SEP-6 2002
TC 3700 MAIL ROOM

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
IMAGE.011AAPPLICATION NO.
09/989,995INFORMATION DISCLOSURE STATEMENT
BY APPLICANT

(USE SEVERAL SHEETS IF NECESSARY)

APPLICANT
Ben A. ArnoldFILING DATE
November 21, 2001

RECEIVED

JUL 10 2002

GROUP
Unknown

TECHNOLOGY CENTER R3700

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
	2,399,650	05/07/46	H.P. Moyer			
	2,426,884	09/02/47	J. Kieffer			
	3,705,383	12/05/72	Fraye			
	3,944,830	03/16/76	Dissing			
	4,115,691	09/19/78	Oldendorf			
	4,115,762	09/19/78	Akiyama et al.			
	4,124,799	11/07/78	Schittenhelm			
	4,233,507	11/11/80	Volz			
	4,400,827	08/23/83	Spears			
	4,475,122	10/02/84	Green			
	4,593,400	06/03/86	Mouyen			
	4,593,406	06/03/86	Stone			
	4,649,561	03/10/87	Arnold			
	4,721,112	01/26/88	Hirano et al.			
	4,724,110	02/09/88	Arnold			
	4,811,373	03/07/89	Stein			
	4,829,549	05/09/89	Vogel et al.			
	4,852,137	07/25/89	Mackay			
	4,922,915	05/08/90	Arnold et al.			
	4,941,164	07/10/90	Schuller et al.			
	4,947,414	08/07/90	Stein			
	4,985,906	01/15/91	Arnold			
	5,005,196	04/02/91	Lanza et al.			
	5,040,199	08/13/91	Stein			
	5,049,746	09/17/91	Ito			
	5,068,788	11/26/91	Goodenough et al.			

RECEIVED

SEP 17 2002

EXAMINER

DATE CONSIDERED

*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

TECHNOLOGY CENTER R3700

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. IMAGE.011A	APPLICATION NO. 09/989,995
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)		APPLICANT Ben A. Arnold	
		FILING DATE November 21, 2001	GROUP Unknown

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
	5,122,664	06/16/92	Ito et al.			
	5,123,037	06/16/92	Picard et al.			
	5,132,995	07/21/92	Stein			
	5,138,553	08/11/92	Lanza et al.			
	5,148,455	09/15/92	Stein			
	5,150,394	09/22/92	Karellas			
	5,187,731	02/16/93	Shimura			
	5,247,559	09/21/93	Ohtsuchi et al.			
	5,335,260	08/02/94	Arnold			
	5,365,564	11/15/94	Yashida et al.			
	5,465,284	11/07/95	Karellas			
	5,577,089	11/19/96	Mazess			
	5,696,805	12/09/97	Gaborski et al.			
	5,712,892	01/27/98	Weil et al.			
	5,852,647	12/22/98	Schick et al.			
	6,320,931	11/20/01	Arnold			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
	EP 0 253 742 A1	01/20/88	Europe (Tanguy et al.)			YES NO

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)
	F.H.W. Heuck, <i>Quantitative Measurements of Mineral Content in Bone Disease</i> , <u>Symposium Ossium</u> , Session 10, E.S. Livingstone, Edingburgh, Scotland, 1970, pages 141-147.
	Robert H. Heil, Jr., et al., <i>Quantitative Materials Evaluation and Inspection with the Image Analysing Computer</i> , <u>Proceedings of the Society of Photo-Optical Instrumentation Engineers</u> , February 1972, pages 131-143.
	Robert G. Zamenhof et al., <i>A Theoretical Sensitivity Evaluation of CT for the Measurement of Bone Mineral in Cortical and Vertebral Bone</i> , <u>Proceedings of CT Densitometry Workshop</u> , <u>Journal of Computer Assisted Tomography</u> , Vol. 3, No. 6, 1979, page 852.

EXAMINER	DATE CONSIDERED
*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.	

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. IMAGE.011A	RECEIVED JUL 10 2002	APPLICATION NO. 09/989,995
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)		APPLICANT Ben A. Arnold		
		TECHNOLOGY CENTER R3700		
		FILING DATE November 21, 2001	GROUP Unknown	

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)
	Technical Note, <i>Automatic Outlining Technique for EMI Scanner Pictures</i> , <u>Medical & Biological Engineering & Computing</u> , Vol. 17, September 1979, pages 693-694.
	Christopher E. Cann et al., <i>Precise Measurement of Vertebral Mineral Content Using Computed Tomography</i> , <u>Journal of Computer Assisted Tomography</u> , Vol. 4, No. 4, August 1980, pages 493-500.
	Christopher E. Cann et al., <i>Spinal Mineral Loss in Oophorectomized Women</i> , <u>Journal of the American Medical Association</u> , Vol. 244, No. 18, November 7, 1980, pages 2056-2059.
	James M. Keller et al., <i>Automatic Outlining of Regions on CT Scans</i> , <u>Journal of Computer Assisted Tomography</u> , Vol. 5, No. 2, April 1981, pages 240-245.
	Robert A. Kruger et al., <i>Dual Energy Film Subtraction Technique for Detecting Calcification in Solitary Pulmonary Nodules</i> , <u>Radiation Physics</u> , Vol. 140, July 1981, pages 213-219.
	Christopher E. Cann, <i>Low Dose CT Scanning for Quantitative Spinal Mineral Analysis</i> , <u>Radiology</u> , Vol. 140, No. 3, September 1981, pages 813-815 (page 814 missing from Applicant's copy).
	K-P Hermann et al., <i>Polyethylene-based Water-equivalent Phantom Material for X-ray Dosimetry at Tube Voltages from 10 to 100kV</i> , <u>Phys. Med. Biol.</u> , Vol. 30, No. 11, 1985, pages 1195-1200.
	S.J. Zeichner et al., <i>Quantitative Digital Subtraction Radiography: A Clinical Method for Bone Mineral Determination</i> , <u>Transactions of the Fifth International Workshop on Bone and Soft Tissue Densitometry Using Computed Tomography</u> , The University of Pennsylvania, October 14-18, 1985, one page.
	S. Serpico et al., <i>Evaluation and Standardization in Bone Densitometry</i> , <u>Transactions of the Fifth International Workshop on Bone and Soft Tissue Densitometry Using Computed Tomography</u> , The University of Pennsylvania, October 14-18, 1985, page 75.
	D.J. Hawkes et al., <i>Development of a Digital Radiographic Technique to Measure Bone Mineral in Neonates</i> , <u>Transactions of the Fifth International Workshop on Bone and Soft Tissue Densitometry Using Computed Tomography</u> , The University of Pennsylvania, October 14-18, 1985, page 76.
	R.E. Baldy et al., <i>A Fully-Automated Computer Assisted Method of CT Brain Scan Analysis for the Measurement of Cerebrospinal Fluid Spaces and Brain Absorption Density</i> , <u>Neuroradiology</u> , Vol. 28, 1986, pages 109-117.
	K-P Hermann et al., <i>Muscle- and Fat-equivalent Polyethylene-based Phantom Materials for X-ray Dosimetry At Tube Voltages Below 100 kV</i> , <u>Phys. Med. Biol.</u> , Vol. 31, No. 9, 1986, pages 1041-1046.
	Marketing Materials from General Electric distributed in 1987, four pages.
	John Max Vogel, <i>Application Principles and Technical Consideration in SPA</i> , <u>Proceedings Osteoporosis Update</u> , Harry Jerant ed., Radiology Research and Education Foundation, University of California, 1987, pages 219-231.
	Willi A. Kalender et al., <i>Vertebral Bone Mineral Analysis: An Integrated Approach with CT</i> , <u>Radiology</u> , 1987, Vol. 164, No. 2, August 1987, pages 419-423.
	W.A. Kalender et al., <i>Methodological Aspects of Bone Mineral Measurements by QCT: Minimizing Operator Influence on Reproducibility</i> , <u>Proceedings of the Sixth International Workshop on bone and Soft Tissue Densitometry</u> , Buxton, England, September 22-25, 1987, page 31.
	P.F. Wankling et al., <i>Computer Recognition Applied to C.T. Scans for the Automation of the Procedure for Bone Mineral Measurement Allowing Consistent Measurement Without Operator Intervention</i> , <u>Proceedings of the Sixth International Workshop on Bone and Soft Tissue Densitometry</u> , Buxton, England, September 22-25, 1987, page 32.
	J.L. Grashuis et al., <i>Semi-Automatic Contour Detection in CT-Scans of the Lumbar Spine</i> , <u>Proceedings of the Sixth International Workshop on Bone and Soft Tissue Densitometry</u> , Buxton, England, September 22-25, 1987, page 33.
	F. Cosman et al., <i>Radiographic Absorptiometry: A Simple Method for Determination of Bone Mass</i> , <u>Osteoporosis International</u> , 1991, pages 34-38.
	Y. Hayashi, <i>Diagnosis of Osteoporosis and Assessment of Bone Mass by Radiography: The Most Convenient Procedure to Reduce the Risk of Fracture</i> , <u>Osteoporosis International</u> , Suppl. 1, 1993, pages 78-80.
	Copy of Brochure, <i>Bone Mineral Density Evaluation</i> , CompuMed, five pages.

JTS-14543.DOC
20020701/2

RECEIVED
SEP 17 2002

TECHNOLOGY CENTER R3700

EXAMINER	DATE CONSIDERED
*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.	